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Title

Hydroacoustic signal **correlation** at separated points with directional reception in the vertical plane.

Source

Acoustical Physics, {Acoust-Phys-Russia}, July-Aug. 1999, vol. 45, no. 4, p. 426-32, CODEN: AOUSEK, ISSN: 1063-

Publisher: MAIK Nauka/Interperiodica Publishing, Russia.

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Author(s)

Galkin-O-P, Pankova-S-D.

Author affiliation

Galkin, O.P., Pankova, S.D., Andreev Acoust. Inst., Acad. of Sci., Moscow, Russia.

Abstract

Results of experimental studies of the cross-correlation of signals received at different distances in the Pacific Ocean as well as the cross-correlation between signals recorded in various oceans are presented. The experiment consists of a continuous pseudonoise transmission in the frequency range from 0.5 to 4.0 kHz and a reception of signals propagating without reflections from the waveguide boundaries with the use of highly directional arrays (~2°) in the vertical plane. The cross-correlation coefficients measured at points separated by a distance of 60 km along the track vary from 0.74 to 0.93, and for a 120-km separation they vary from 0.52 to 0.59. For signals received in different oceans (the Atlantic and Pacific, the Atlantic and Indian, and the Pacific and Indian oceans), the cross**correlation** coefficients prove to be high as well (up to 0.83).

Descriptors

ACOUSTIC-CORRELATION; 🔁 ACOUSTIC-WAVEGUIDES; 🐑 OCEANOGRAPHIC-REGIONS;

<u>UNDERWATER-ACOUSTIC-PROPAGATION.</u>

Classification codes

A9210V Underwater-sound*:

A4330 Underwater-sound;

A4360 Acoustic-signal-processing;

A9330P Pacific-Ocean.

Keywords

hydroacoustic-signal-correlation; separated-points; directional- reception; vertical-plane; Pacific-Ocean; continuous-pseudonoise- transmission; wavequide-boundaries; highly-directional-arrays; cross- correlationcoefficients; 0.5-to-4-kHz.

Treatment codes

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frequency: 5.0E02 to 4.0E03 Hz.

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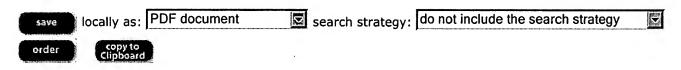
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